QC ABSTRACT

NAME OF WORK: Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*200*200)	Block Density	One Test		1	1
		Water Absorption	One Test		1	1
		Dimension Analysis	One Test		1	1
		Compressive Strength	One Test		1	1
6	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
7	Ceramic Tiles	Measurement of Length, Width and Thickness	One Test		1	1
		Water Absorption	One Test		1	1
		Modulus of Rupture and Breaking Strength	One Test		1	1

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BBMP
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8	Mortar Sand	Seive Analysis	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
9	Plaster Sand	Seive Analysis	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
10	RMC(M20)	Compressive Strength(7days and 28days)	1 sets/0-5 cum	3.32	2	2
11	Cement Concrete pavement (M20)	Compressive Strength(7days and 28days)	3sets/16-30 cum	20.39	6	6

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-23-63** **Date: 15-11-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014
Customer's Reference	:	BBMP/EE/BTP/WO/96/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	–
2	Finess by Air permeablity method (m^2/kg,Min)	286.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Technical Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-23-63** **Date: 11-12-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014
Customer's Reference	:	BBMP/EE/BTP/WO/96/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-11-19
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-23-63** **Date: 15-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.55	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.22	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-23-63** **Date: 15-11-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014
Customer Reference	:	BBMP/EE/BTP/WO/96/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-23-63** **Date: 15-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.1	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-01-23-63** **Date: 15-11-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-01-23-63** **Date: 15-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-01-23-63** **Date: 29-11-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014
Customer's Reference	:	BBMP/EE/BTP/WO/96/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-11-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	26-11-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	200	203	16159	32.748	2026.6	2012.3	Not less than 1800Kg/m^3
2	399	198	202	15958	32.871	2059.8		
3	401	201	202	16281	31.755	1950.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2020-01-23-63** **Date: 29-11-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	399	201	200	
3	402	200	203	
4	404	203	202	
5	404	200	199	
6	403	200	202	
7	403	200	199	
8	399	201	200	
9	404	203	200	
10	403	202	203	
11	403	202	203	
12	403	200	199	
13	401	200	201	
14	399	199	199	
15	401	202	203	
16	400	200	202	
17	403	201	203	
18	404	200	200	
19	403	202	202	
20	399	201	199	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2020-01-23-63** **Date: 29-11-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	200	80073	401.5	5.0	5.1
2	399	201	80196	415.8	5.2	
3	402	200	80392	418.4	5.2	
4	404	203	81893	431.9	5.3	
5	404	200	80648	417.7	5.2	
6	403	200	80550	429.1	5.3	
7	403	200	80739	396.1	4.9	
8	399	201	80374	395.8	4.9	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-01-23-63** **Date: 18-11-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 16-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 30/11/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-11-19

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	23/11/2019	30/11/2019	150.06 X 151.53 X 151.97	22738	**8.695**	421.6	18.5	18.4
2	Plinth Beam Concrete	M20	23/11/2019	30/11/2019	150.32 X 151.20 X 150.42	22728	**8.993**	411.9	18.1	
3	Plinth Beam Concrete	M20	23/11/2019	30/11/2019	151.35 X 149.70 X 149.69	22657	**8.320**	422.1	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 21/12/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-11-19

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	23/11/2019	21/12/2019	151.92 X 149.94 X 150.99	22778	**8.060**	524.8	23.0	23.0
2	Plinth Beam Concrete	M20	23/11/2019	21/12/2019	151.51 X 150.17 X 150.50	22751	**8.195**	505.9	22.2	
3	Plinth Beam Concrete	M20	23/11/2019	21/12/2019	149.58 X 149.32 X 151.25	22336	**8.743**	532.1	23.8	

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 05/12/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-11-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	28/11/2019	05/12/2019	149.65 X 151.34 X 149.47	22649	**8.695**	429.1	18.9	18.7
2	Lintel Concrete	M20	28/11/2019	05/12/2019	150.02 X 151.11 X 149.02	22669	**8.993**	419.8	18.5	
3	Lintel Concrete	M20	28/11/2019	05/12/2019	150.24 X 149.60 X 149.17	22477	**8.320**	417.8	18.6	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 26/12/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-11-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	28/11/2019	26/12/2019	151.28 X 150.82 X 149.15	22816	**8.060**	535.0	23.4	23.3
2	Lintel Concrete	M20	28/11/2019	26/12/2019	149.52 X 149.27 X 150.87	22320	**8.195**	504.7	22.6	
3	Lintel Concrete	M20	28/11/2019	26/12/2019	150.96 X 150.84 X 151.74	22770	**8.743**	542.4	23.8	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 17/12/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-12-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	10/12/2019	17/12/2019	149.25 X 149.74 X 150.73	22349	**8.695**	408.7	18.3	18.4
2	Roof Concrete	M20	10/12/2019	17/12/2019	151.83 X 149.85 X 150.94	22752	**8.993**	418.1	18.4	
3	Roof Concrete	M20	10/12/2019	17/12/2019	150.13 X 149.28 X 151.83	22411	**8.320**	415.2	18.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 07/01/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-12-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	10/12/2019	07/01/2020	151.51 X 149.65 X 151.29	22672	**8.060**	529.4	23.3	23.2
2	Roof Concrete	M20	10/12/2019	07/01/2020	150.33 X 149.54 X 150.70	22481	**8.195**	512.4	22.8	
3	Roof Concrete	M20	10/12/2019	07/01/2020	150.70 X 149.89 X 149.55	22588	**8.743**	527.8	23.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 23/12/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	16/12/2019	23/12/2019	151.68 X 151.83 X 150.97	23029	**8.695**	418.9	18.2	18.5
2	Cement Concrete Pavement	M20	16/12/2019	23/12/2019	151.38 X 151.26 X 149.65	22897	**8.993**	426.2	18.6	
3	Cement Concrete Pavement	M20	16/12/2019	23/12/2019	149.79 X 149.46 X 149.44	22388	**8.320**	420.8	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 13/01/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	16/12/2019	13/01/2020	150.10 X 150.72 X 150.89	22623	**8.060**	539.8	23.9	23.5
2	Cement Concrete Pavement	M20	16/12/2019	13/01/2020	151.70 X 149.59 X 150.78	22694	**8.195**	516.8	22.8	
3	Cement Concrete Pavement	M20	16/12/2019	13/01/2020	149.32 X 150.51 X 149.31	22473	**8.743**	534.6	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 23/12/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	16/12/2019	23/12/2019	150.24 X 150.17 X 149.63	22562	**8.695**	413.7	18.3	18.3
2	Cement Concrete Pavement	M20	16/12/2019	23/12/2019	150.03 X 149.20 X 149.95	22384	**8.993**	407.0	18.2	
3	Cement Concrete Pavement	M20	16/12/2019	23/12/2019	149.13 X 150.29 X 151.49	22412	**8.320**	412.8	18.4	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 13/01/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	16/12/2019	13/01/2020	149.03 X 149.54 X 150.15	22286	**8.060**	523.1	23.5	23.2
2	Cement Concrete Pavement	M20	16/12/2019	13/01/2020	149.16 X 149.14 X 149.16	22245	**8.195**	492.5	22.1	
3	Cement Concrete Pavement	M20	16/12/2019	13/01/2020	149.11 X 150.17 X 151.52	22392	**8.743**	535.9	23.9	

Note:

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R RUDRAPRASAD
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 23/12/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	16/12/2019	23/12/2019	150.03 X 151.69 X 150.20	22757	**8.695**	424.2	18.6	18.8
2	Cement Concrete Pavement	M20	16/12/2019	23/12/2019	149.36 X 149.62 X 151.76	22347	**8.993**	420.6	18.8	
3	Cement Concrete Pavement	M20	16/12/2019	23/12/2019	150.00 X 151.05 X 150.88	22657	**8.320**	427.4	18.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-23-63** **Date: 13/01/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	16/12/2019	13/01/2020	150.70 X 150.43 X 149.99	22669	**8.060**	525.4	23.2	23.0
2	Cement Concrete Pavement	M20	16/12/2019	13/01/2020	149.64 X 151.54 X 151.33	22678	**8.195**	510.6	22.5	
3	Cement Concrete Pavement	M20	16/12/2019	13/01/2020	149.31 X 149.54 X 149.52	22327	**8.743**	518.9	23.2	

Note:

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Vidyaranyapura Sub Division
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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2020-01-23-63** **Date: 06-12-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014.
Customer's Reference	:	BBMP/EE/BTP/WO/96/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-11-19
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	30-11-19

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	**300**		**300**		**6.05**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	6.04	14.8	14.66
2	300	300	6.06	14.2	
3	300	300	6.02	14.9	
4	300	300	6.06	14.8	
5	300	300	6.05	14.6	

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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End of Report

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2020-01-23-63** **Date: 10-12-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014.

Customer's Reference : BBMP/EE/BTP/WO/96/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-12-19

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 07-12-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2020-01-23-63** **Date: 10-12-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	–
5	*Loose Bulk Density (Kg/litre)	1.73	–

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Authorized Signatory
Technical Manager

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****End of Report****

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Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2020-01-23-63** **Date: 16-12-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri. V. Bharath kumar, #530, Kaliyamma Temple Road, Kuvempunagara IInd Stage, Bangalore-560014.
Customer's Reference	:	BBMP/EE/BTP/WO/96/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-19
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-12-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-01-23-63** **Date: 16-12-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Technical Manager

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****End of Report****

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